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**FIG. 1**

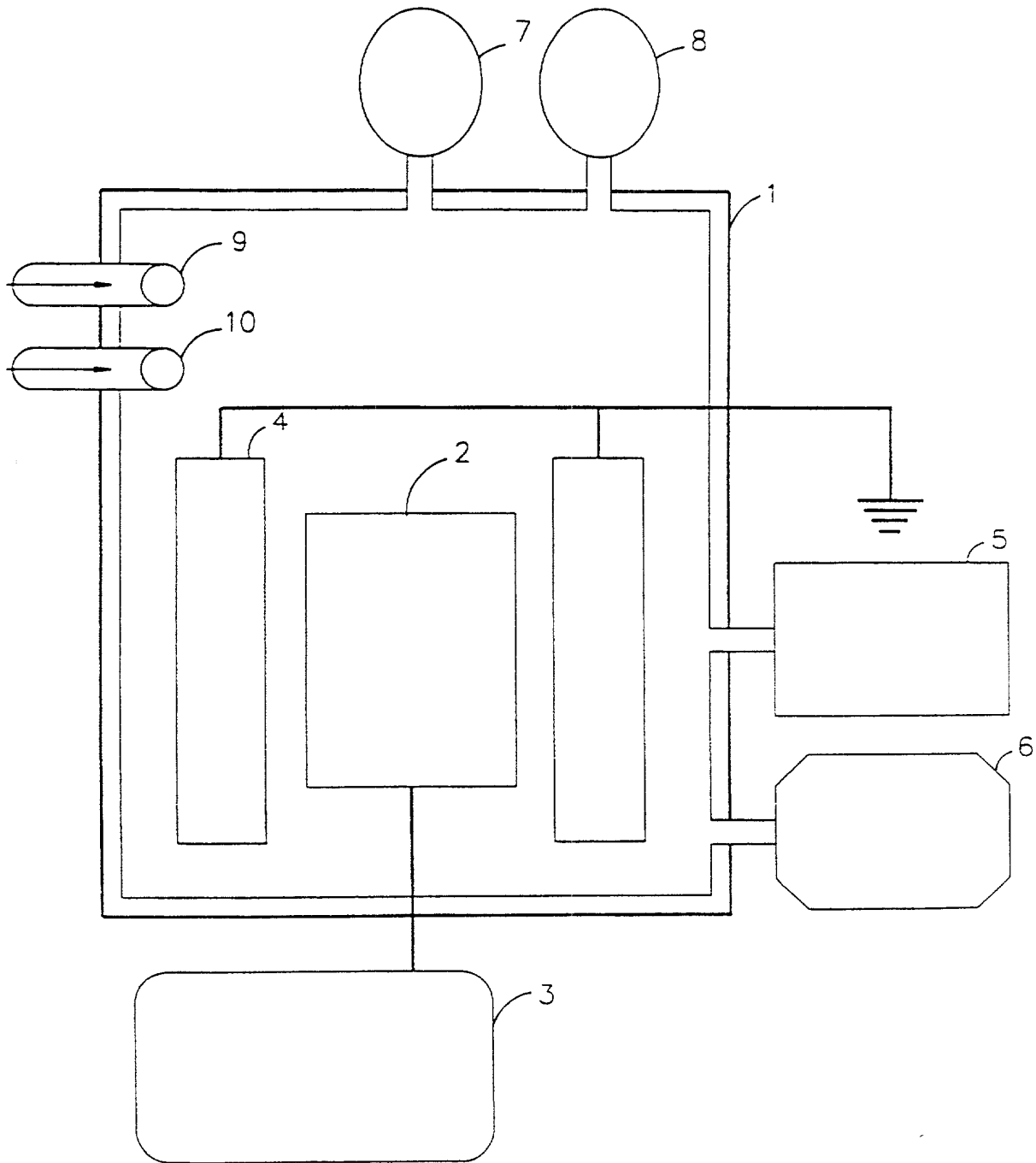
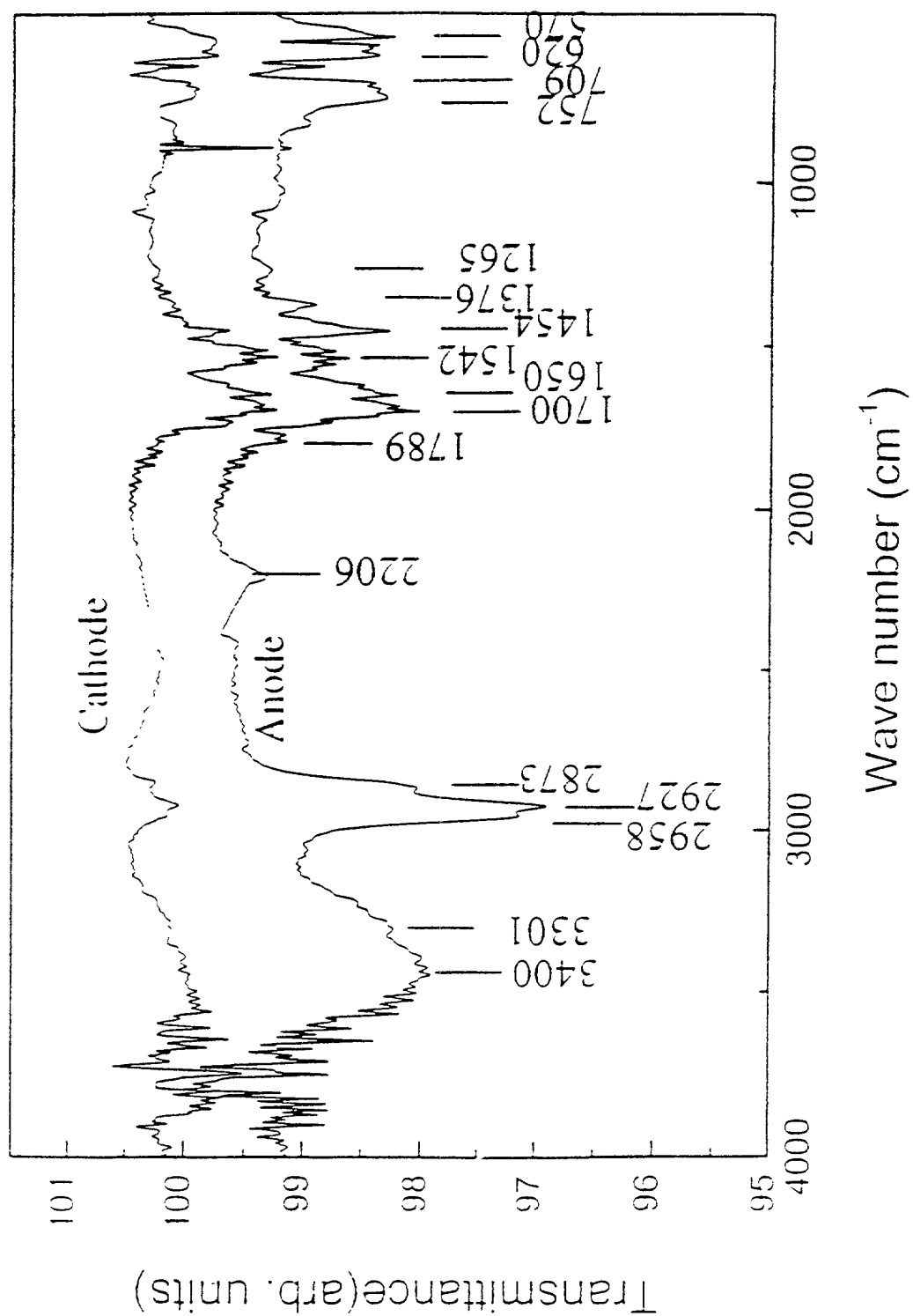


FIG. 1

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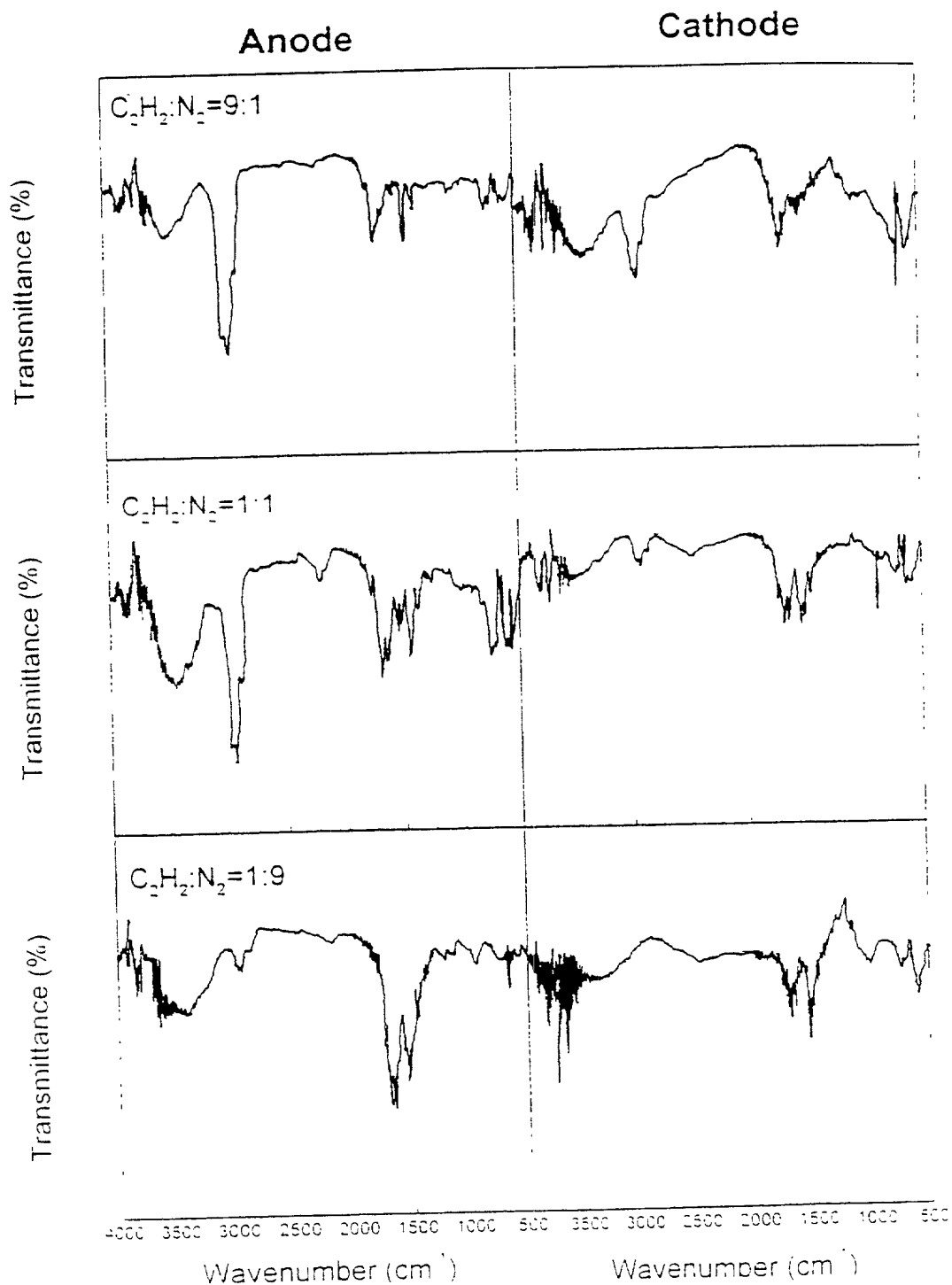
FIG. 2



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**FIG. 3**

As-received 60 sec.

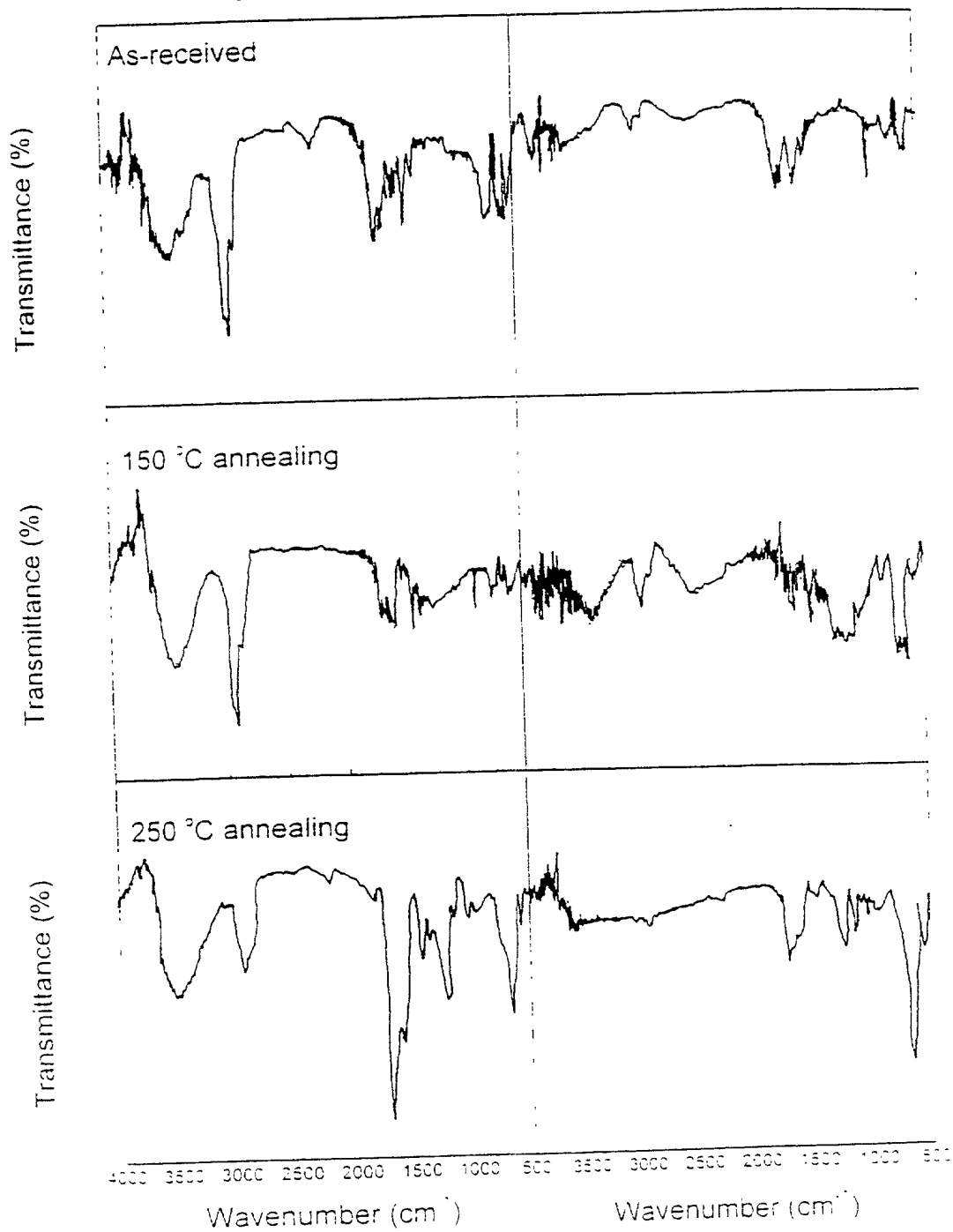


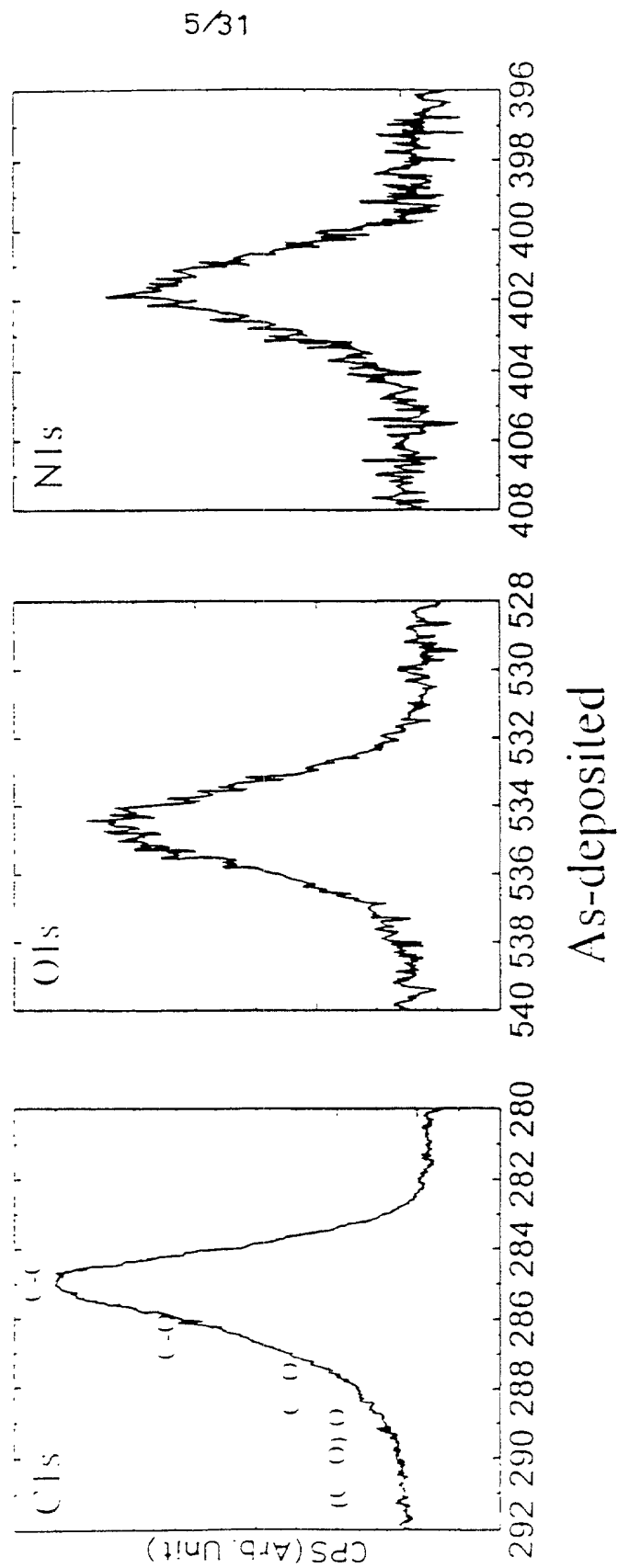
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**FIG. 4** $C_2H_2:N_2=1:1$ , Time=60 sec.

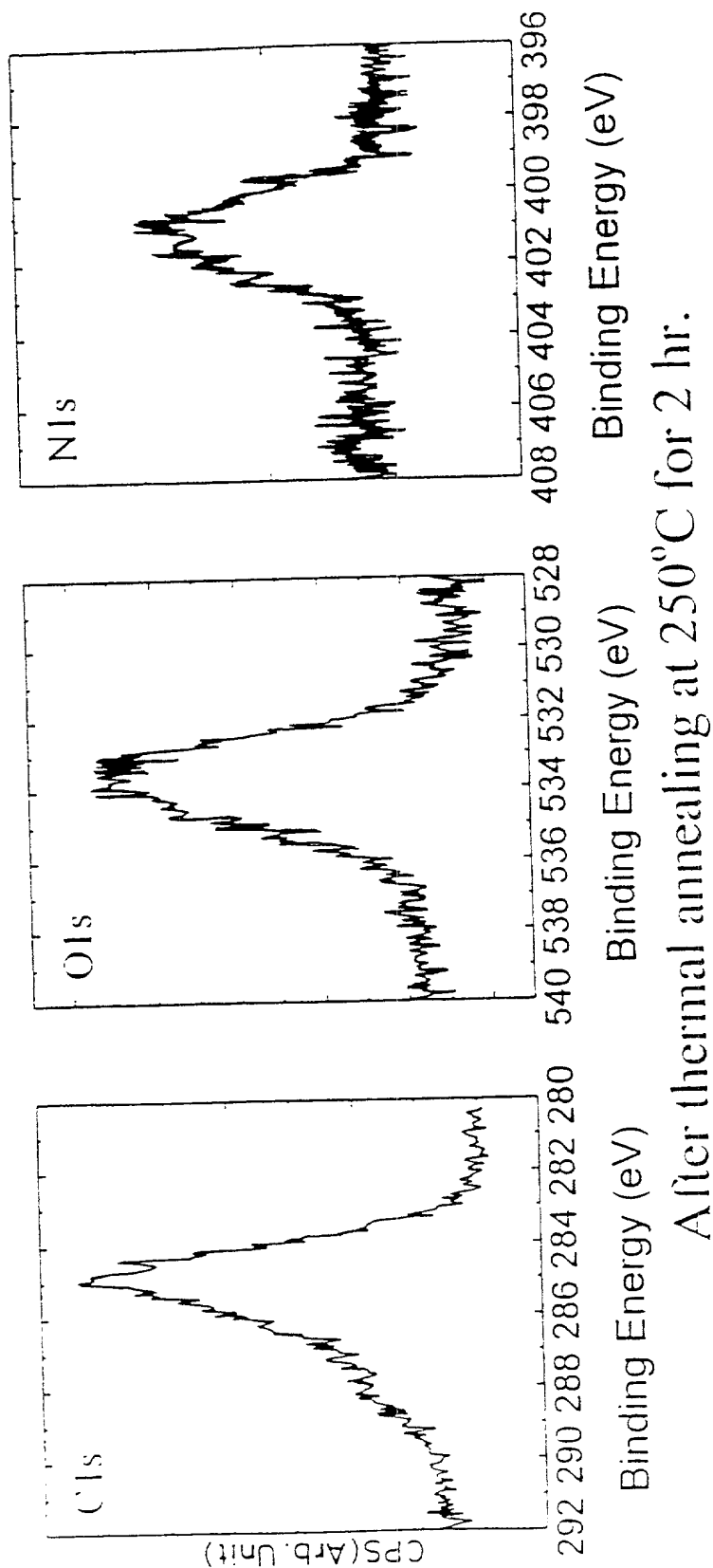
Anode

Cathode



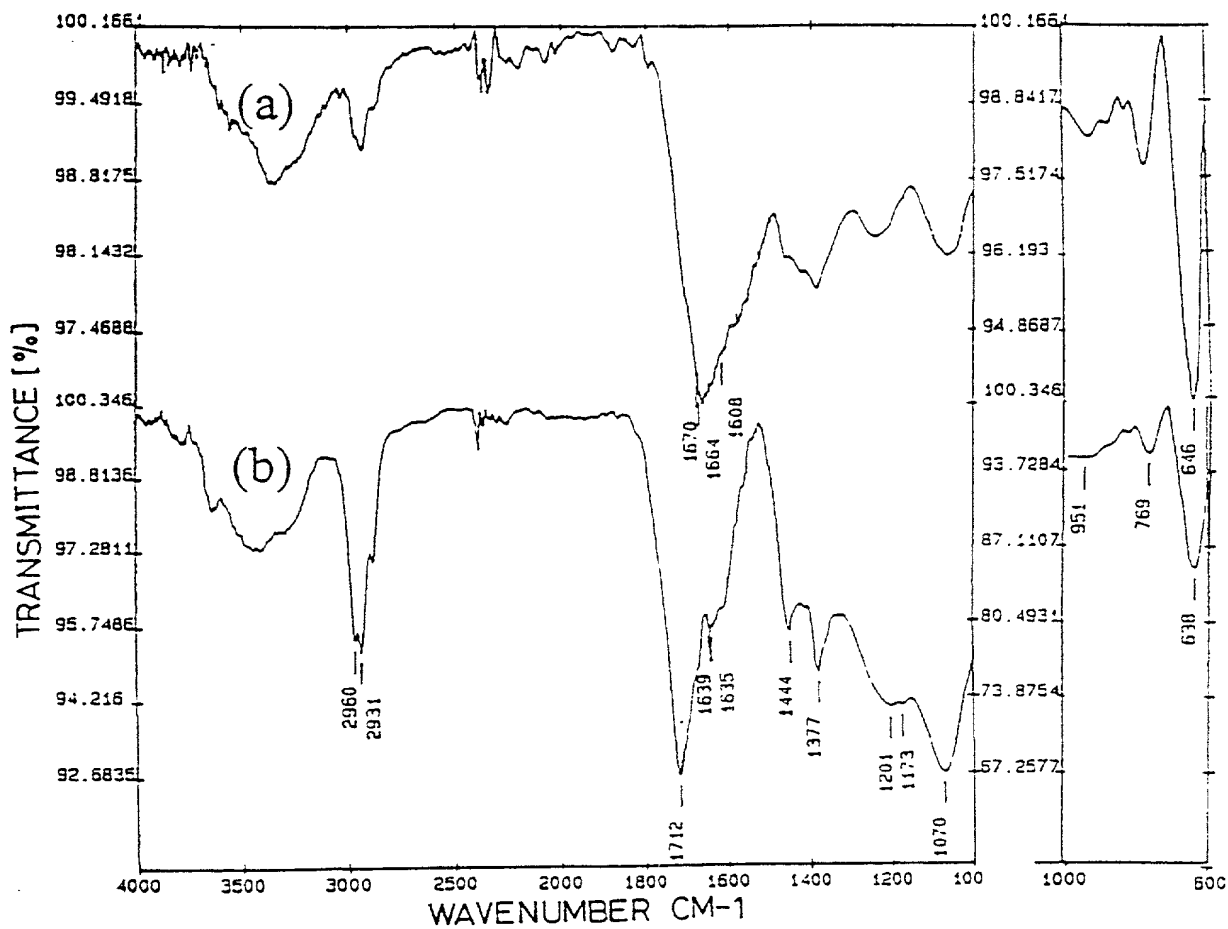
**FIG. 5A**

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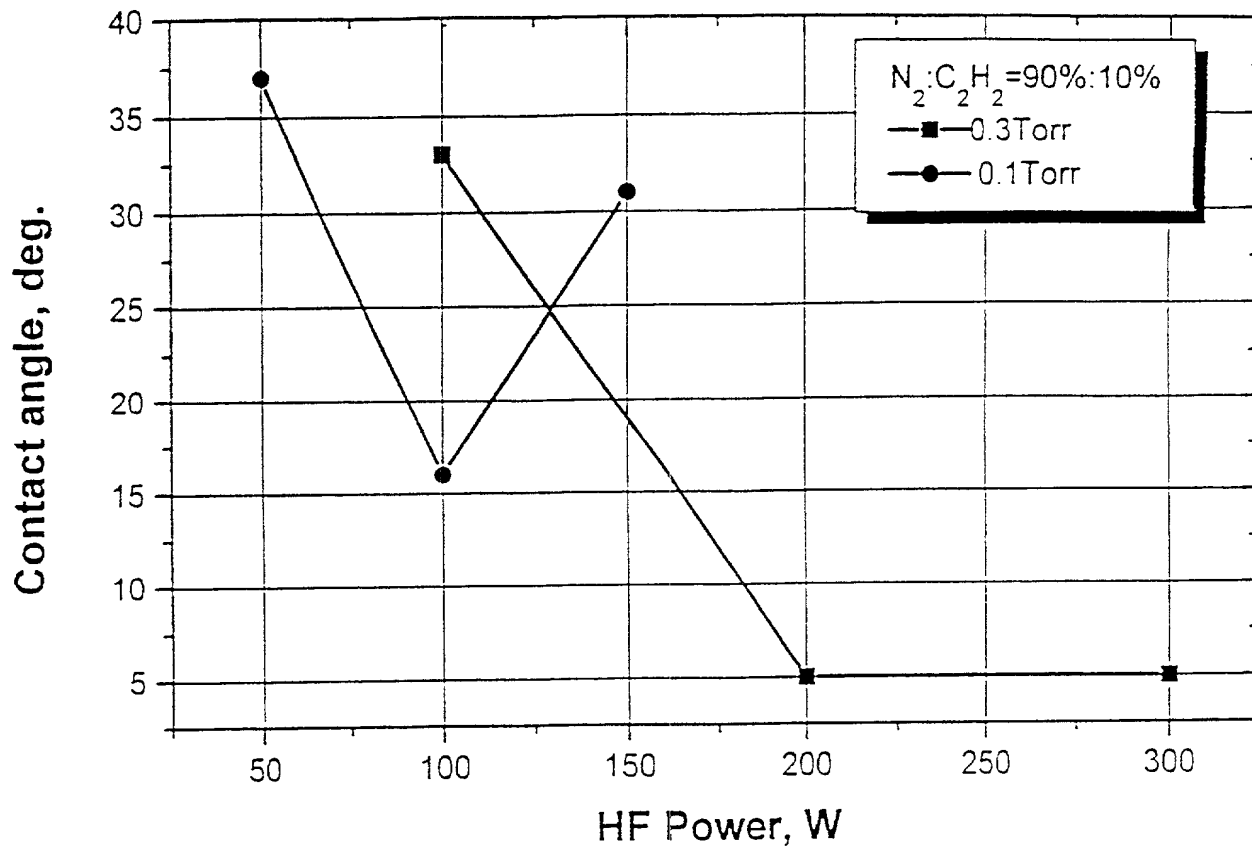
**FIG. 5B**

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FIG. 6



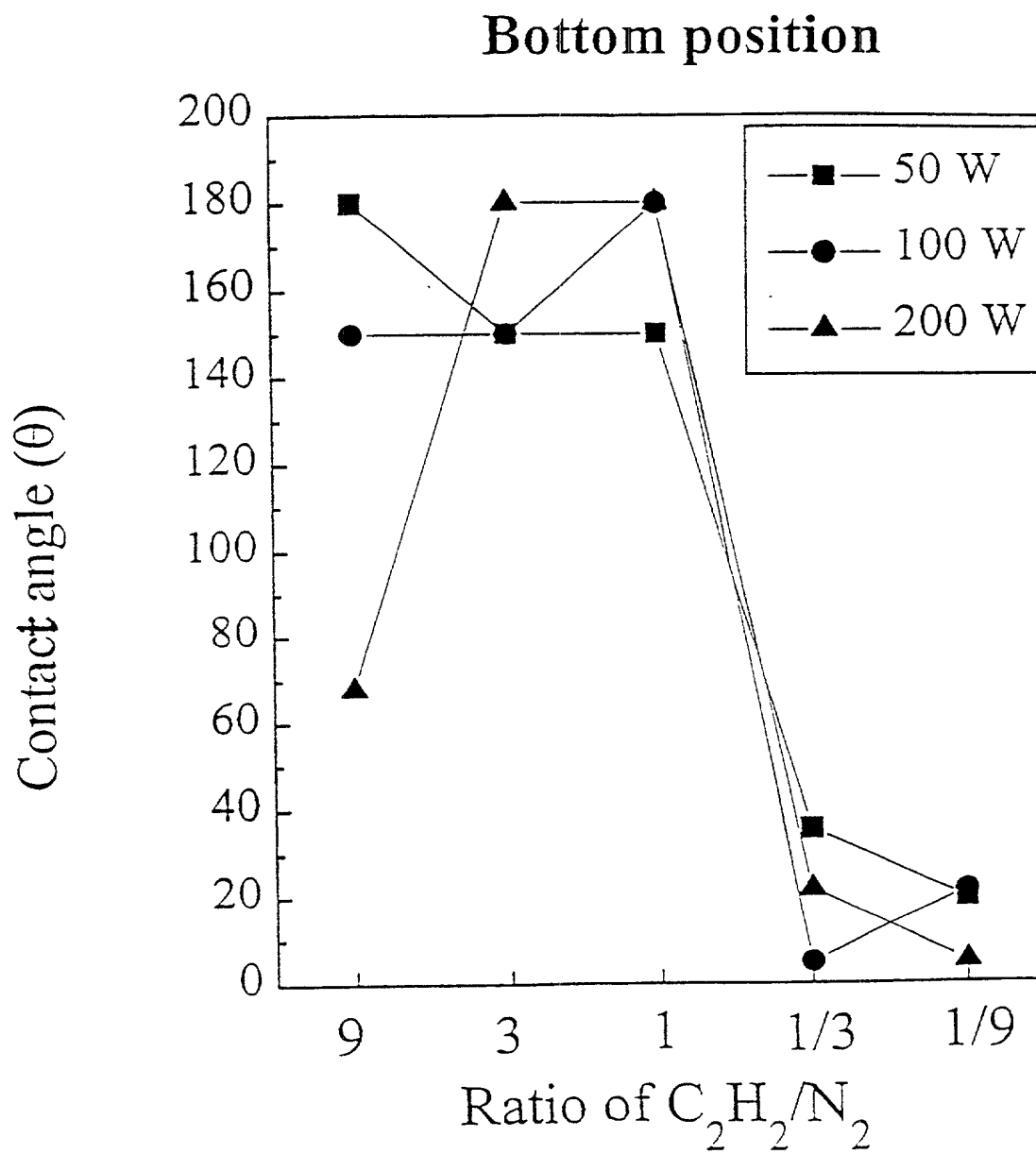
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**FIG. 7****Al Substrate**

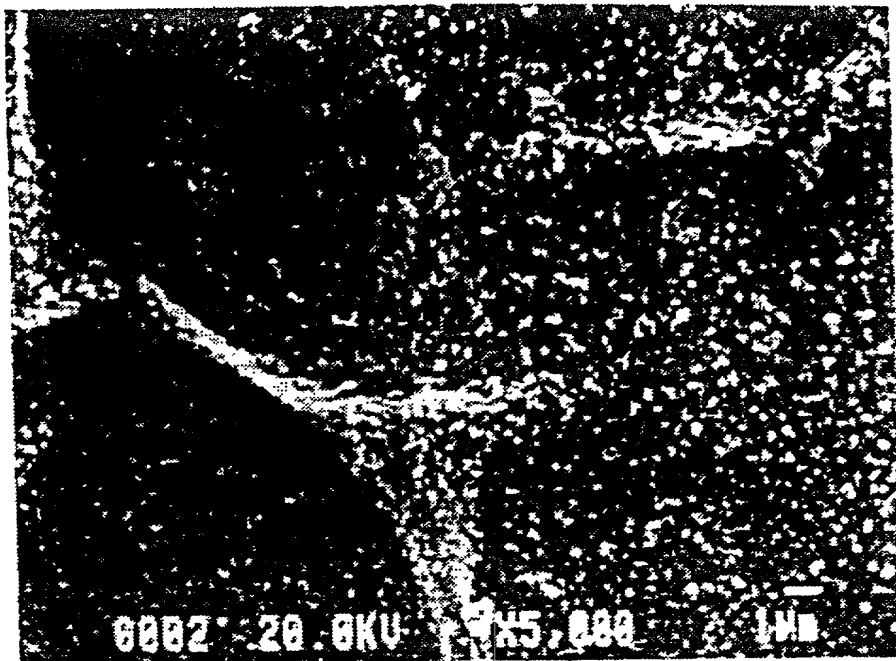
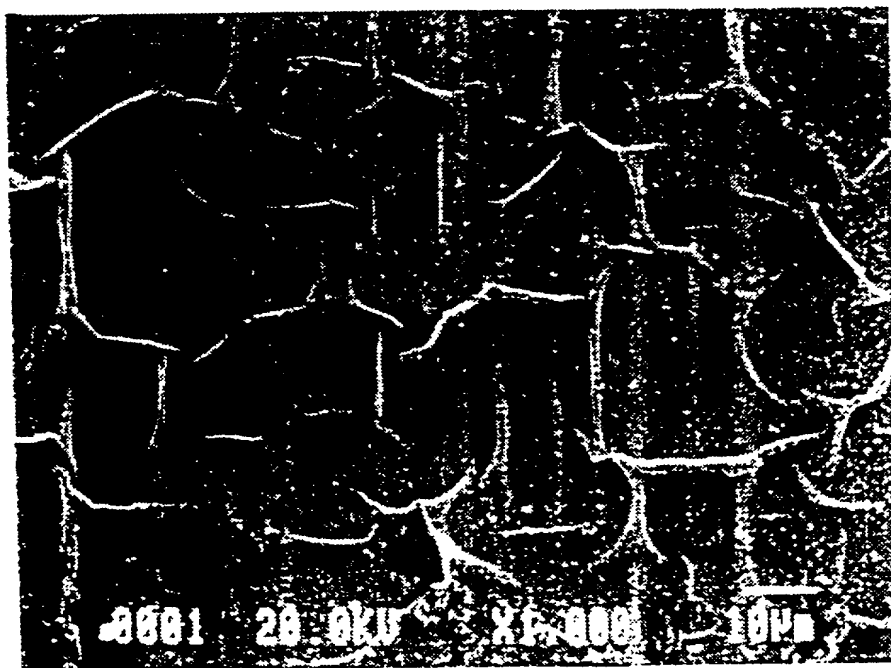


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FIG. 8



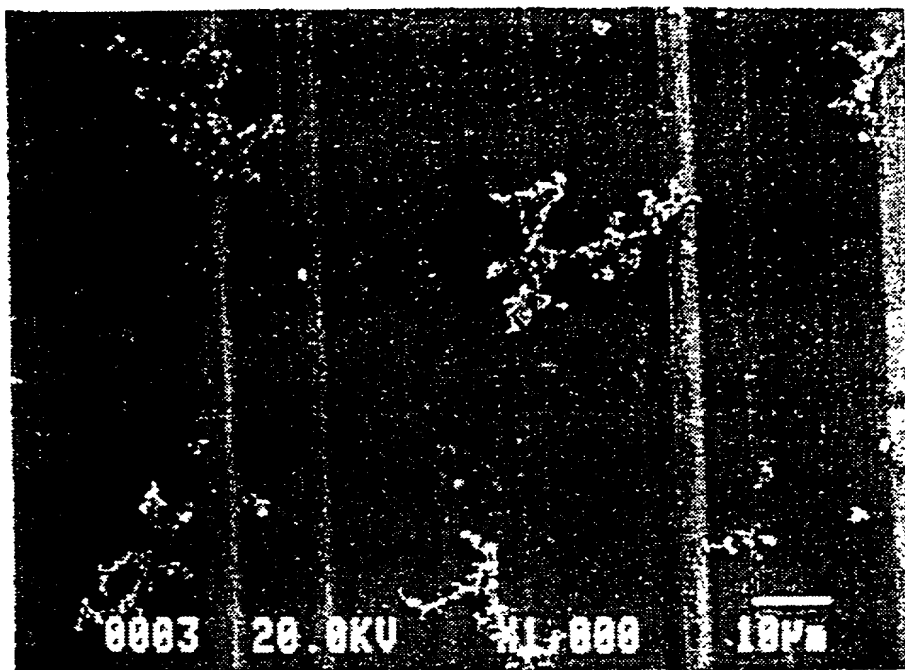
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**FIG. 9A****FIG. 9B**

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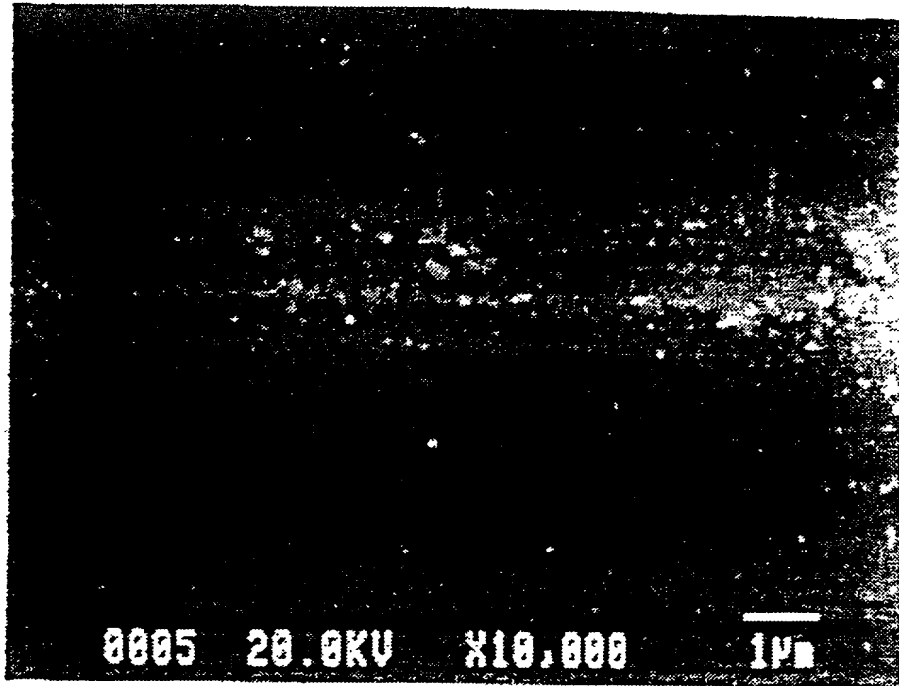
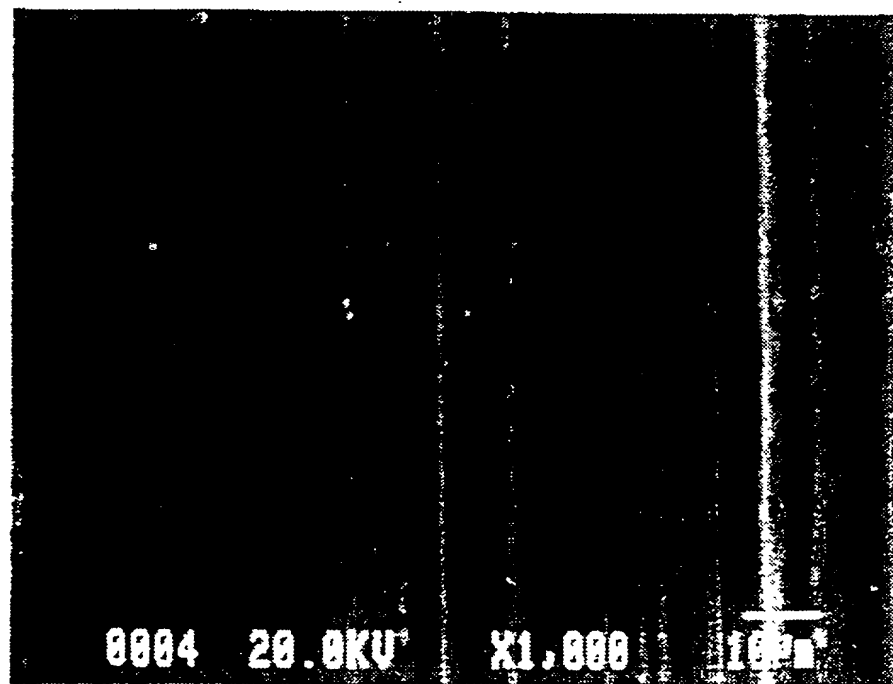
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**FIG. 10**



0003 20.0KV X1,000 10µm

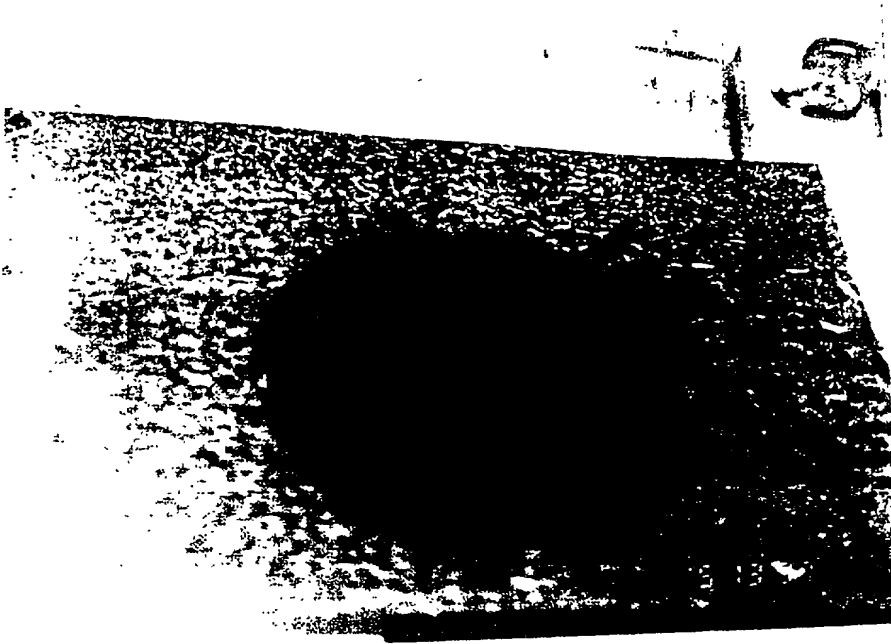
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**FIG. 11A****FIG. 11B**

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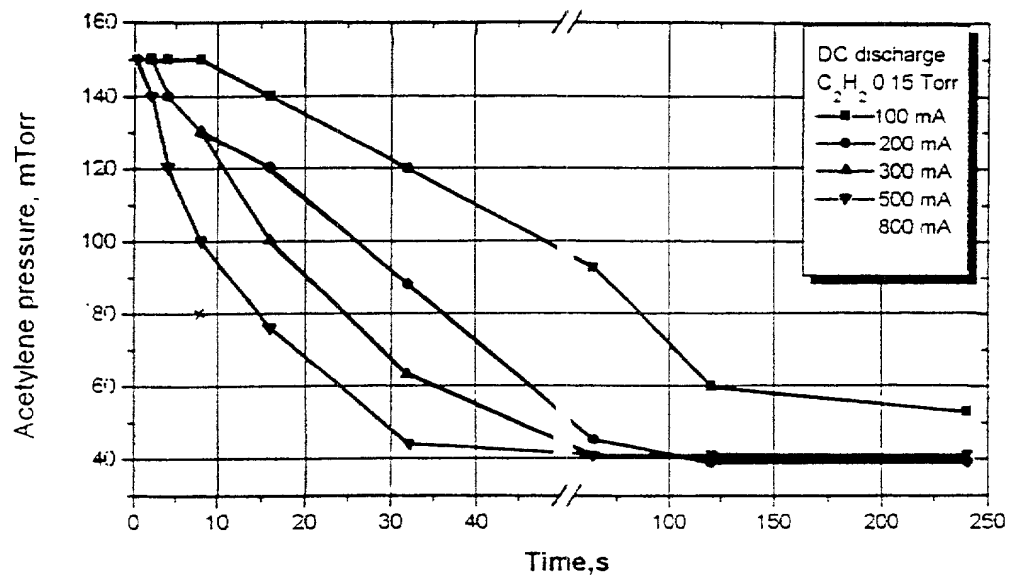
FIG. 12



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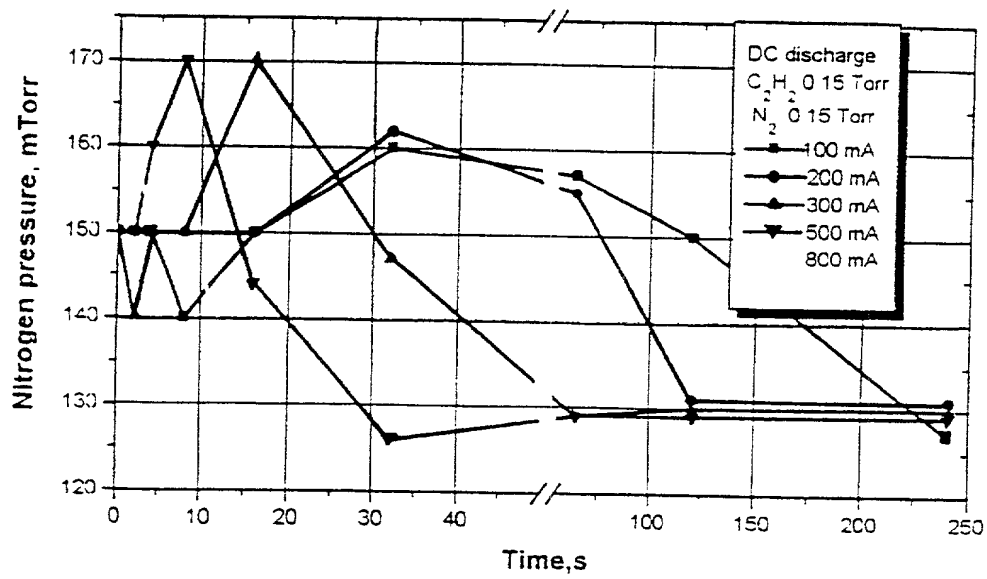
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FIG. 13



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FIG. 14



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FIG.15A

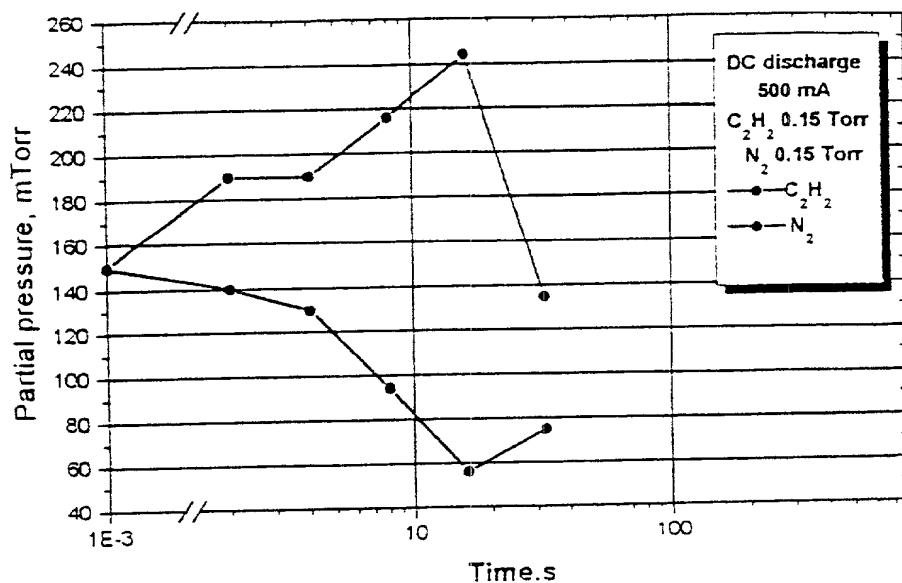
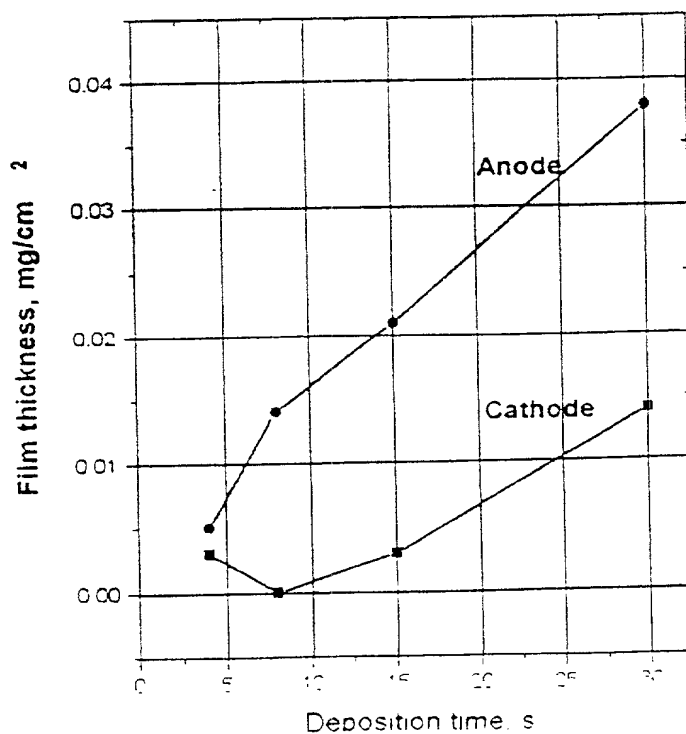
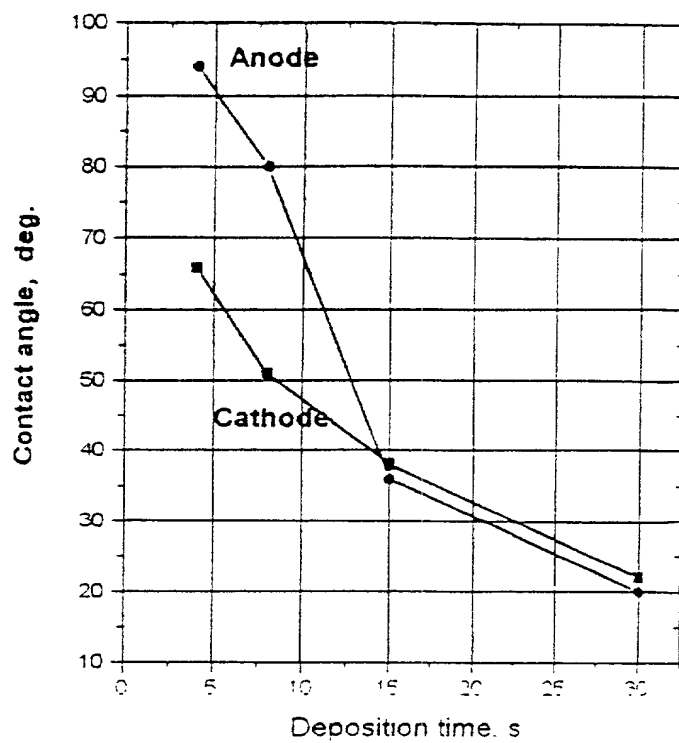


FIG.15B





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**FIG. 15C**

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FIG. 16A

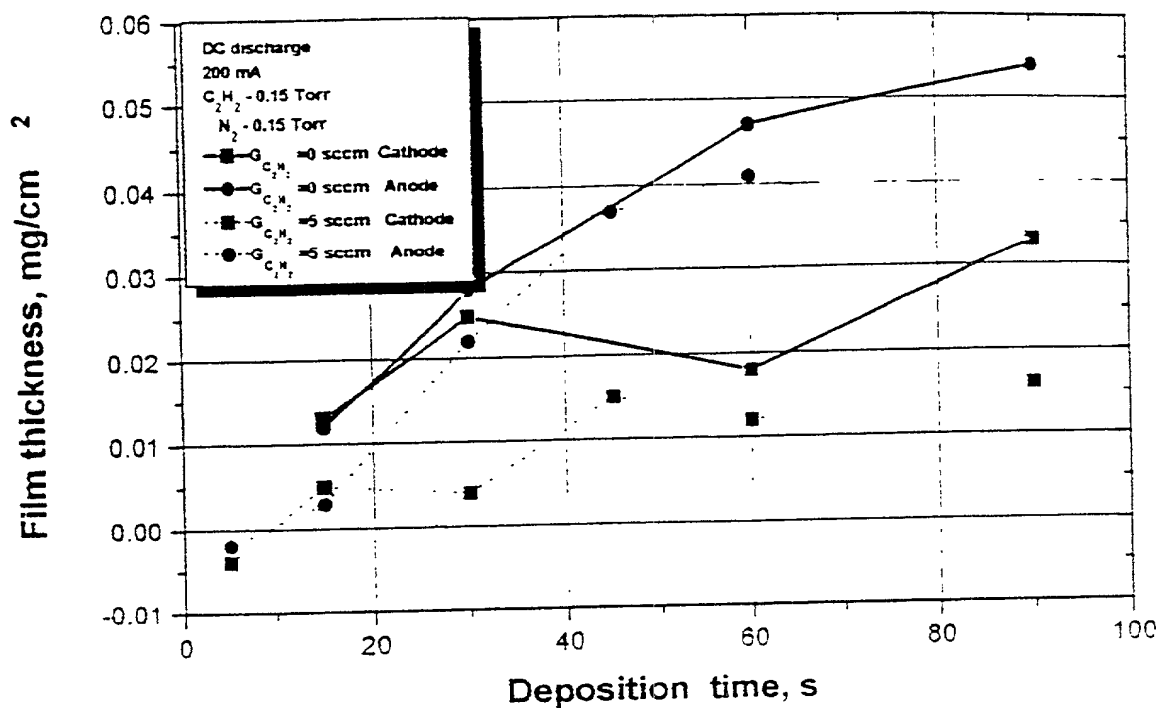
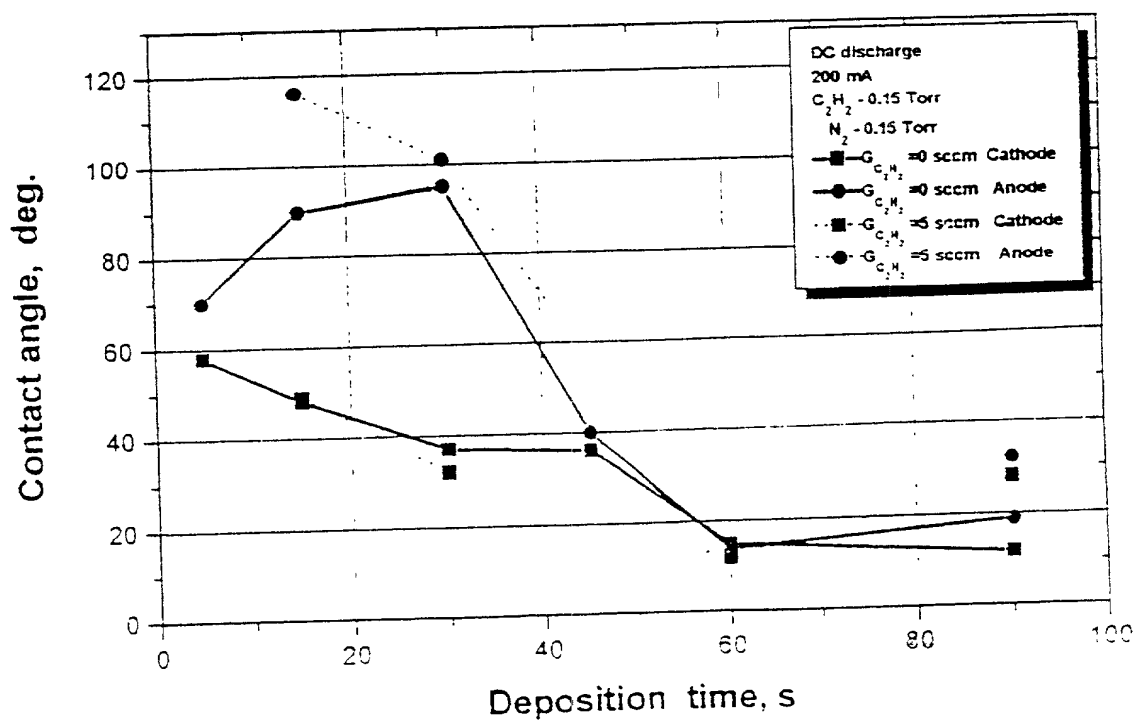


FIG. 16B



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FIG. 17A

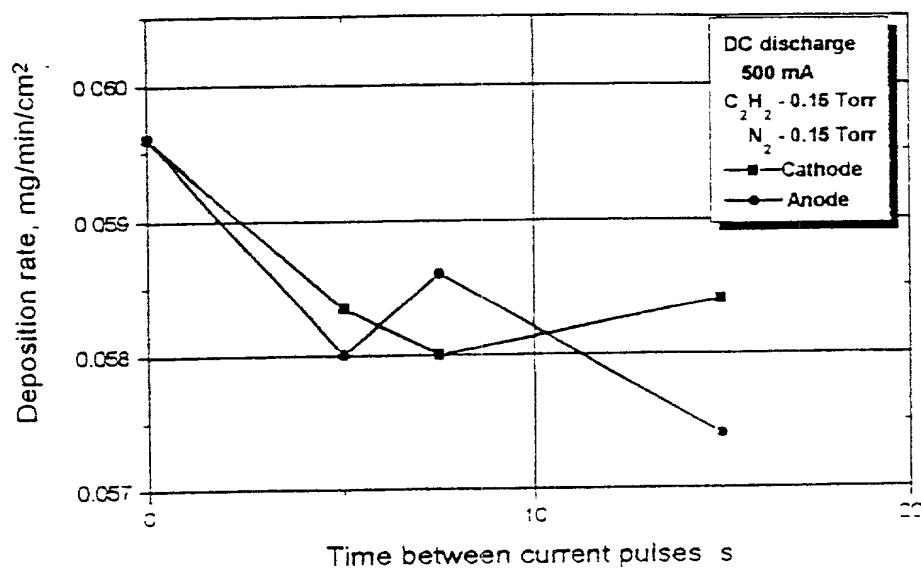
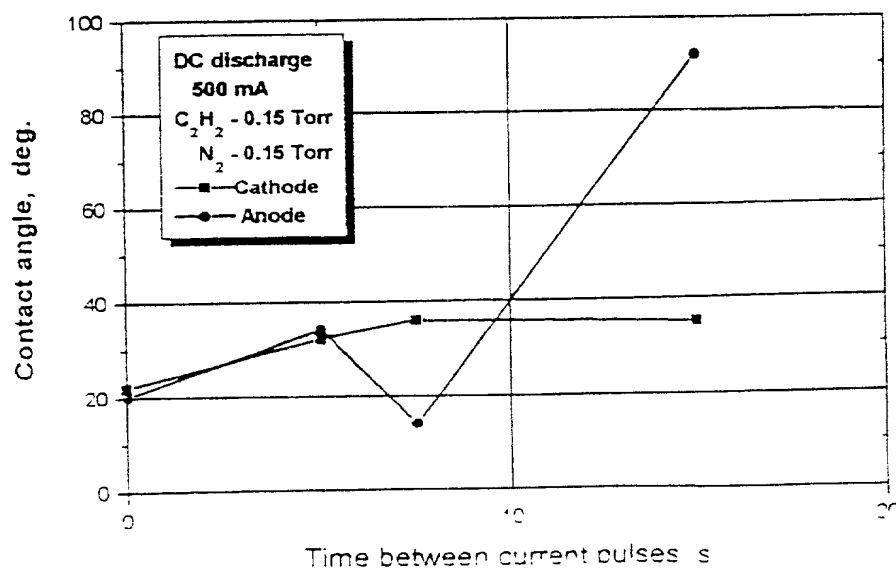
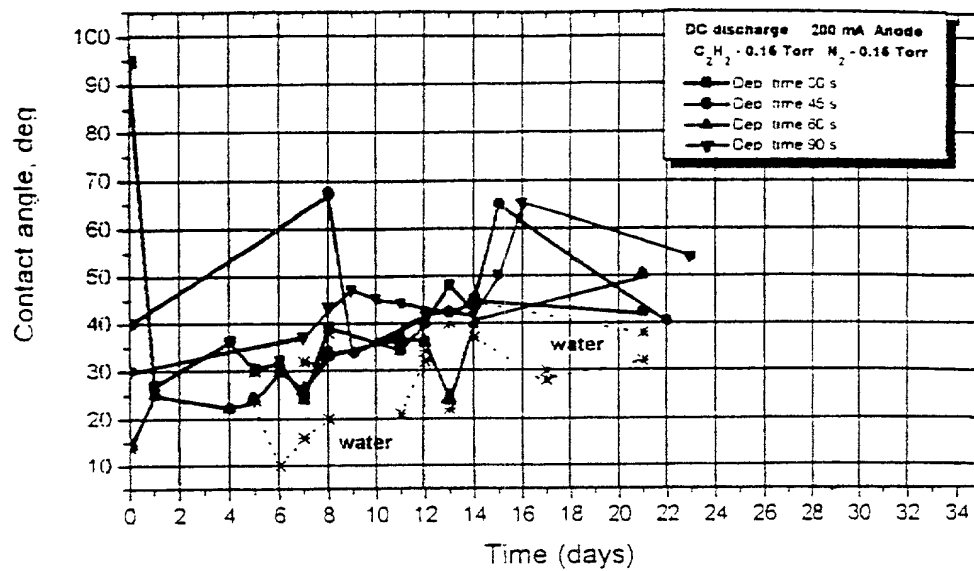


FIG. 17B



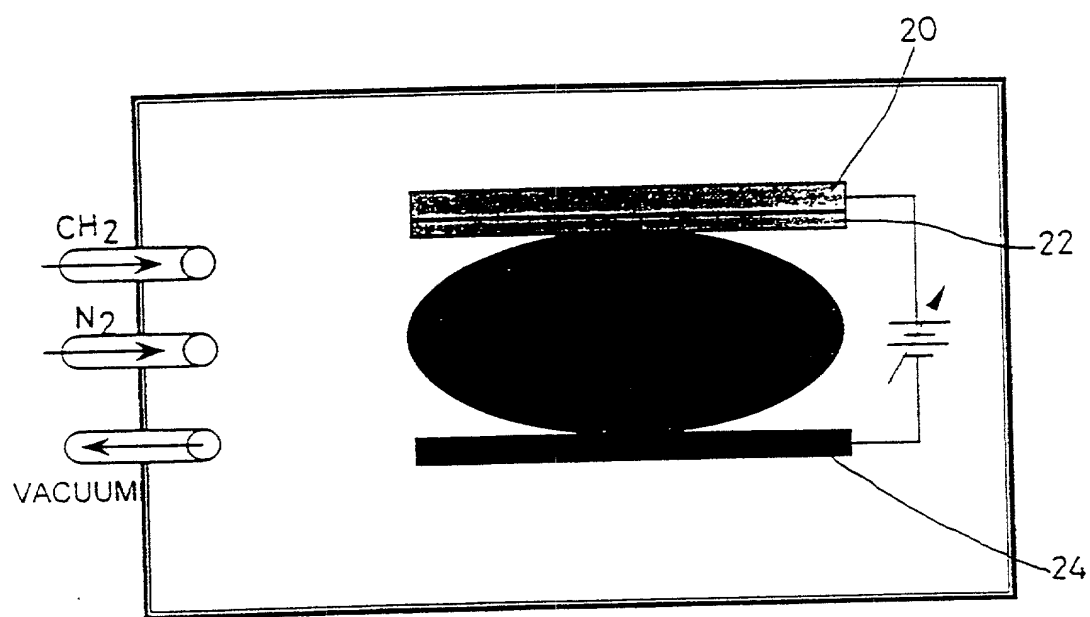
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FIG. 18



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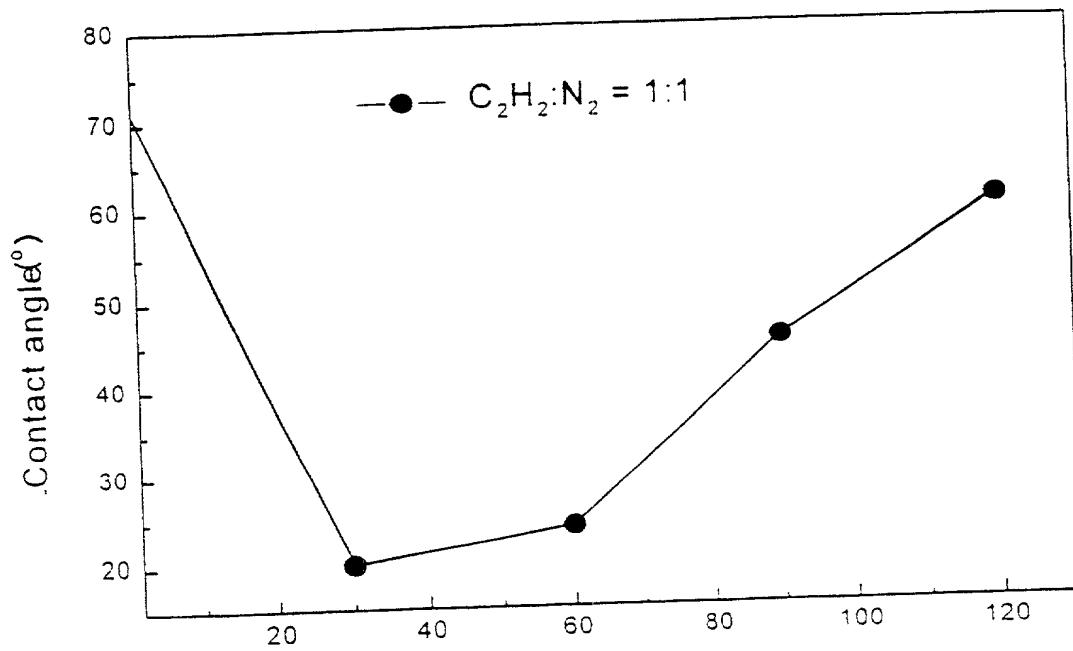
FIG. 19



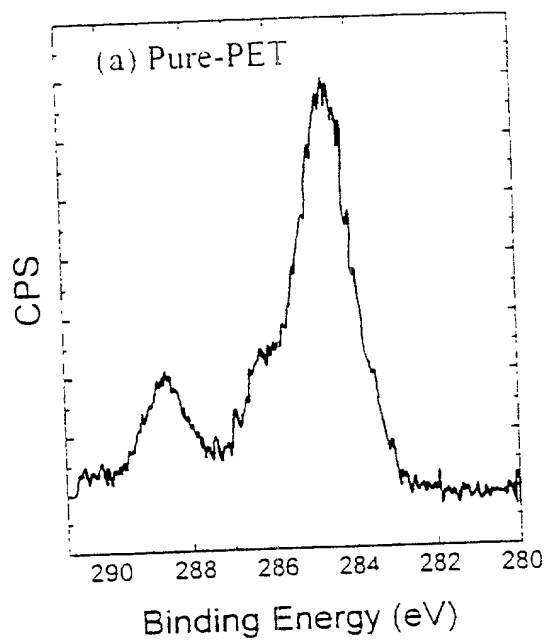
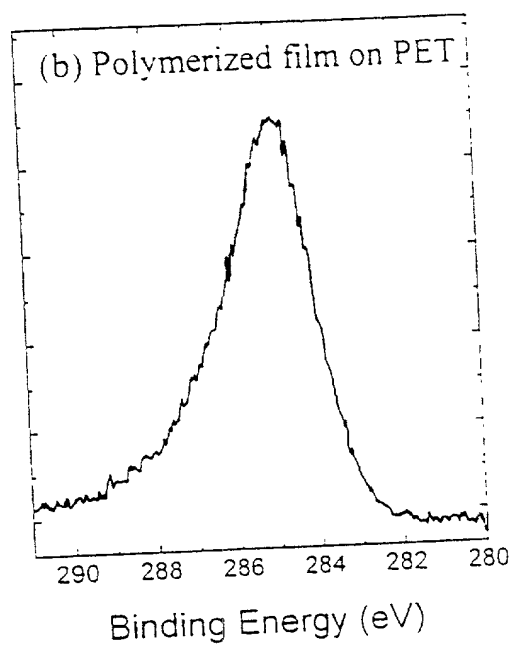
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FIG. 20

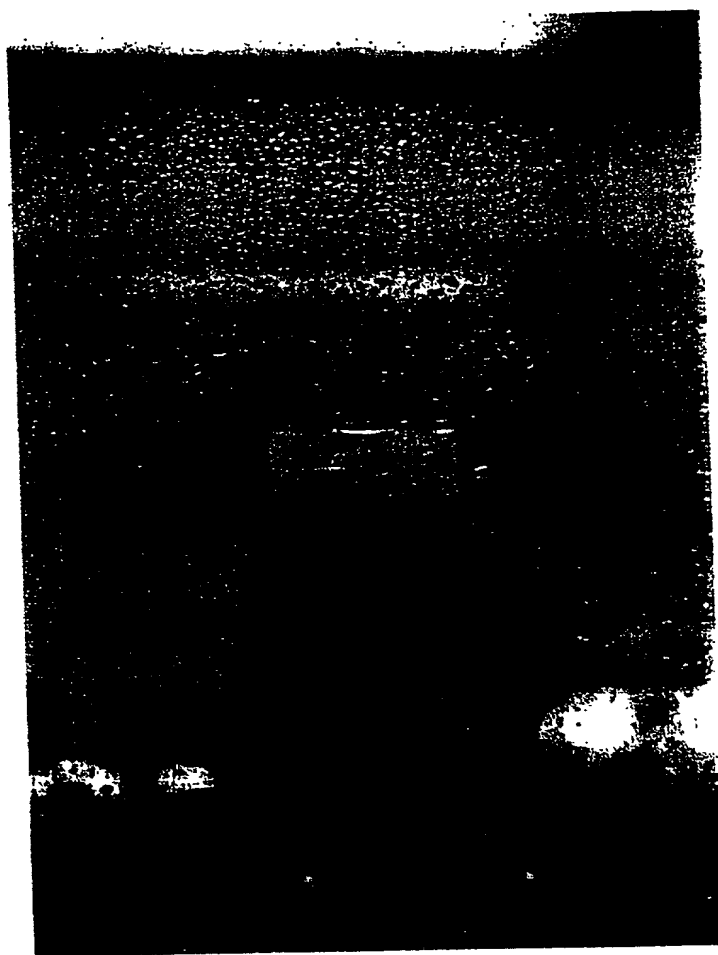


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**FIG.21A****FIG.21B**

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**FIG.22**



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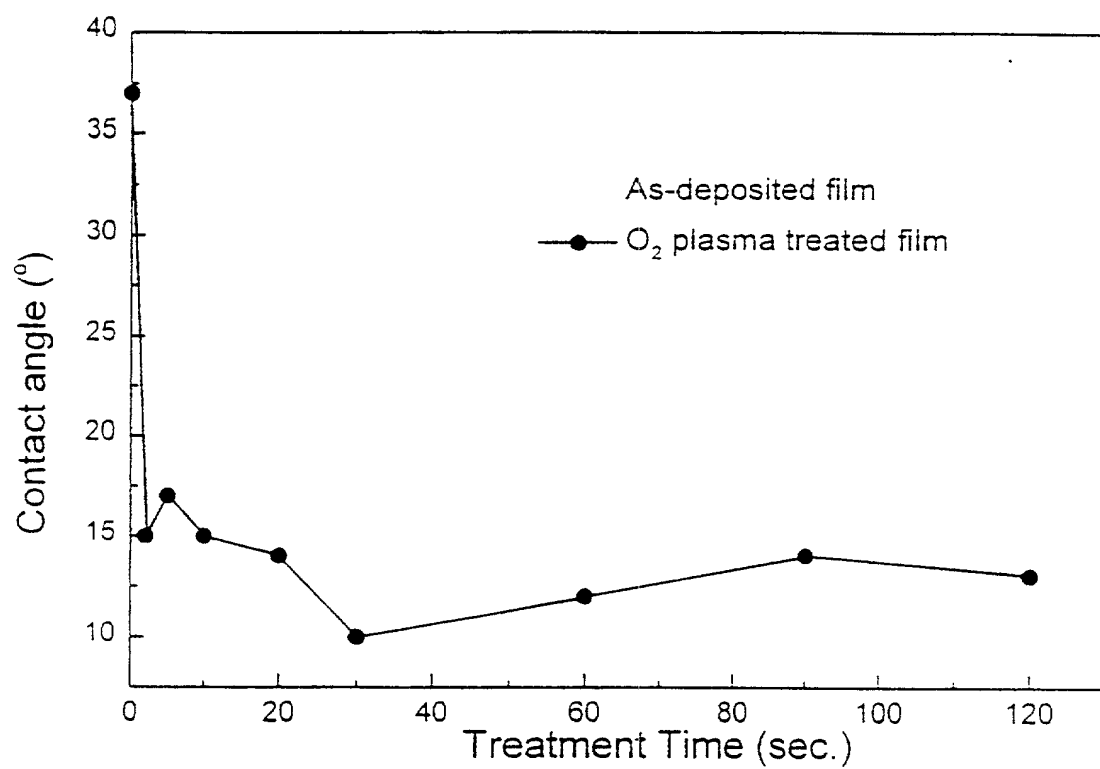
FIG.23



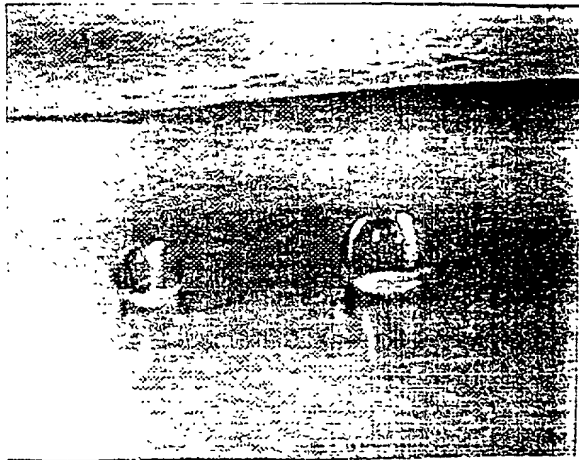
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FIG. 24



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**FIG. 25**



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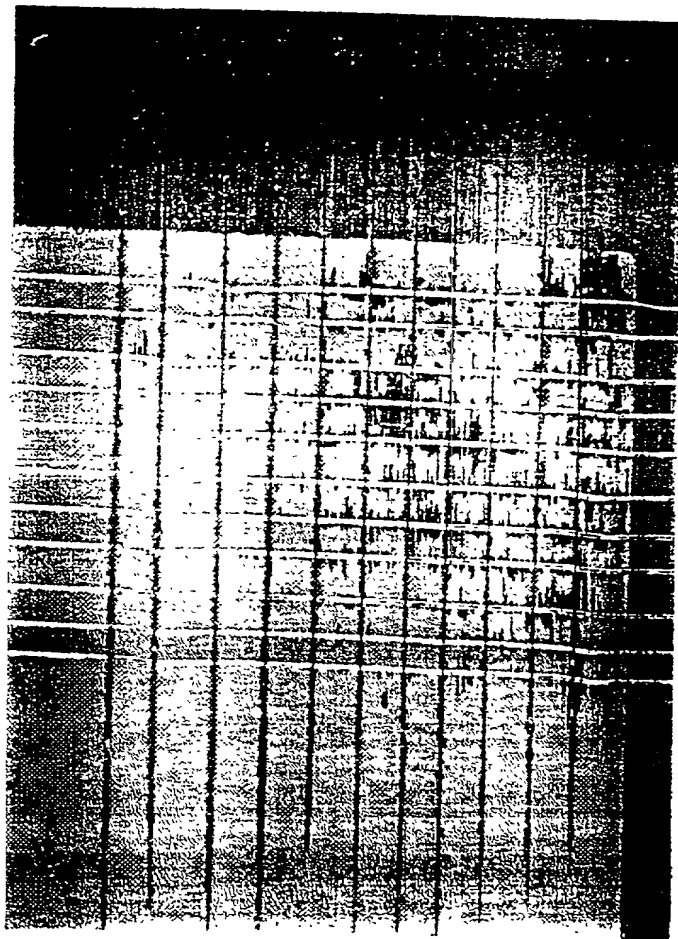
FIG. 26



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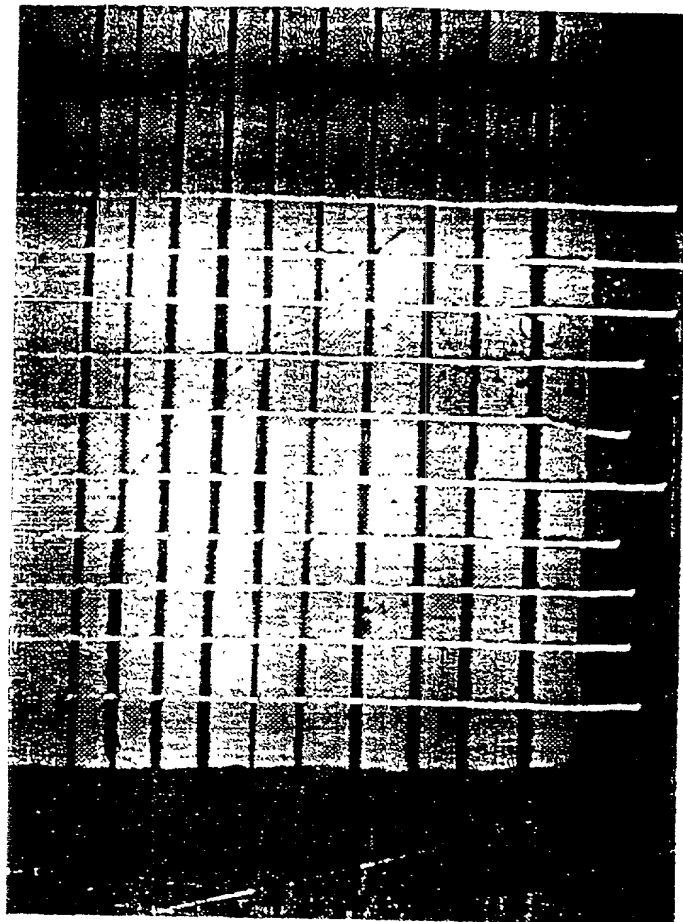
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FIG. 27



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FIG. 28



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**FIG. 29**

